

## EAST Search History

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| L1    | 124   | secondary adj battery adj pack                             | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/04 23:29 |
| L2    | 72    | 1 same (charg\$3 discharg\$3)                              | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/04 23:30 |
| L4    | 3     | 2 and bimetal  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/04 23:30 |
| L5    | 5     | 2 same motor   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/04 23:28 |
| L6    | 4     | 2 same (car automobile auto vehic\$4)                      | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/04 23:29 |
| L7    | 18347 | battery adj pack   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/04 23:29 |
| L8    | 6547  | 7 same (charg\$3 discharg\$3)                              | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/04 23:30 |
| L9    | 67    | 8 and bimetal  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2007/03/05 00:42 |
| L10   | 27925 | (ptc (positive adj (temperature thermal) adj coefficient)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/05 00:43 |
| L11   | 462   | 10 same (bimetal (bi adj metal))                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/05 00:43 |
| L12   | 11    | 11 same curie  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/05 00:43 |
| S4    | 1081  | 361/58.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/04 18:29 |
| S5    | 216   | 361/114.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/02/28 19:59 |
| S6    | 1320  | 361/115.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/02/28 20:00 |
| S7    | 54638 | (fixed stationary nonmov\$5 still) adj contact             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/02/28 20:01 |
| S8    | 31355 | S7 same ((moving mov\$5 switch\$5) adj contact)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/02/28 20:02 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S9  | 7066 | S8 same first same second   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/28 20:03 |
| S10 | 64   | S9 same (((nonlinear ptc coefficient) adj resist\$4) ptc coefficient)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/28 20:04 |
| S11 | 32   | ("3223808"   "3443259"   "3525914"   "3840834"   "4208646"  <br>"4262273"   "4319126"   "4379278"   "4507642"   "4532488"  <br>"4563667"   "4755787"   "4894634"   "5309131"   "5428336"  <br>"5607610"   "5757262"   "5796327"   "5804798"   "5936510"  <br>"5973587"   "6020807"   "6249210"   "6300860").PN. OR<br>("6396381").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 13:30 |
| S12 | 0    | ("2005/0189206").URPN.  | USPAT   | OR | ON | 2007/03/01 13:55 |
| S13 | 26   | ("2753421"   "3023350"   "3265839"   "3308255"   "3496511"  <br>"4476452"   "4862132"   "5309131"   "5489762"   "5615072").<br>PN. OR ("5973587").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:04 |
| S14 | 24   | ("2139921"   "2503008"   "3443259"   "3706952"   "3959762"  <br>"4319214"   "4363016"   "4389630"   "4620175"   "4636766"  <br>"4843363"   "4862132"   "5212465"   "5309131"   "5367279"  <br>"5892429").PN. OR ("6249210").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:20 |
| S15 | 25   | ("2503008"   "2585068"   "3265839"   "3443259"   "4399423"  <br>"4476452"   "4636766"   "4862132"   "4862133"   "5268664"  <br>"5309131"   "5367279"   "5428336"   "5489726"   "5607610"  <br>"5892429"   "5973587"   "6097274"   "6133817").PN. OR<br>("6300860").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:27 |
| S16 | 15   | ("4201735"   "4394646"   "4413174").PN. OR ("5607610").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:31 |
| S17 | 9    | ("3304397"   "4622739"   "5013871"   "5864278"   "5877671"  <br>"5892429"   "5973587"   "6136128").PN. OR ("6823580").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:34 |
| S18 | 21   | ("3840834"   "4580123"   "4862132"   "4862133"   "5039843"  <br>"5182538"   "5309131"   "5367279"   "5607610"   "5659285"  <br>"5936510"   "5973587"   "6020807"   "6031447"   "6133817"  <br>"6181233"   "6249210"   "6300860"   "6396381").PN. OR<br>("6577223").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:35 |
| S19 | 22   | ("2753421"   "3265839"   "3496511"   "3768057"   "4059817"  <br>"4201967"   "4555686"   "4862132"   "5023744"   "5043690"  <br>"5309131"   "5615072"   "5721525"   "5745022"   "5757261"  <br>"5835001"   "5892429"   "5973587"   "6031447").PN. OR<br>("6249211").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:39 |
| S21 | 15   | ("4862132").URPN.   | USPAT   | OR | ON | 2007/03/01 14:45 |
| S22 | 22   | ("3378660"   "3430177"   "3443259"   "4306211"   "4470033"  <br>"4517541"   "4551702"   "4672353"   "4849729"   "5121095"  <br>"5367279"   "5717257"   "5808539"   "5864278"   "5892429"  <br>"5939970"   "6054916"   "6249210").PN. OR ("6724293").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:47 |
| S23 | 22   | ("4295114"   "4319126"   "4472705"   "4580123"   "4876523"  <br>"5039843").PN. OR ("5367279").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:48 |
| S24 | 28   | ("4092624"   "4470033"   "4568904"   "4808965").PN. OR<br>("5659285").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:52 |
| S25 | 8    | ("3452313"   "4231010").PN. OR ("4555686").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:55 |
| S26 | 11   | ("2753421").URPN.   | USPAT   | OR | ON | 2007/03/01 14:56 |
| S27 | 13   | ("2707738"   "2753421"   "3308255"   "3496511"   "4476452"  <br>"4581509"   "4620175"   "4862132"   "5670930").PN. OR<br>("6100784").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/01 14:56 |

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|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S28 | 13    | ("4015229"   "4399423"   "4476452"   "4849729"   "4862132"   "5023744"   "5615072"   "5721525"   "5745022"   "5757261").<br>PN. OR ("6031447").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2007/03/01 15:07 |
| S29 | 5     | ("2707738").URPN.  | USPAT   | OR | ON  | 2007/03/01 15:09 |
| S30 | 2     | ("6396381").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/01 16:28 |
| S31 | 34    | uchiya-thermostat.as.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:33 |
| S32 | 216   | (uchiya adj thermostat).as.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:33 |
| S33 | 182   | S32 not S31  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:34 |
| S34 | 202   | takeda-hideaki.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:34 |
| S35 | 320   | S33 S34  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:34 |
| S36 | 30934 | ptc (positive adj (temperature thermal))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:36 |
| S37 | 841   | S36 same (arc\$3 surg\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:36 |
| S38 | 9     | S35 and S37  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/01 16:36 |
| S39 | 30    | tamai-mikitaca.in. teraoka-daiki.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/04 17:48 |
| S40 | 88    | 337/37.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/04 18:02 |
| S41 | 73    | 337/97.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/03/04 18:11 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S42 | 73   | 337/110.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 17:53 |
| S43 | 66   | 337/334.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 17:49 |
| S44 | 55   | 337/337.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 17:55 |
| S45 | 102  | 337/340.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 17:59 |
| S47 | 54   | S44 not S42 not S43  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 17:56 |
| S48 | 98   | S45 not S42 not S43 not S44  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 17:59 |
| S49 | 173  | 337/103.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 18:11 |
| S50 | 336  | 361/2.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 18:15 |
| S51 | 5    | S50 and (ptc (positive adj (temperature thermal) adj coefficient))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/05 00:43 |
| S52 | 180  | 361/8.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 18:17 |
| S53 | 4    | ("4725911"   "5410442").PN. OR ("5777286").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/04 18:19 |
| S54 | 14   | ("20010021090"   "3727157"   "4050044"   "4431978"   "4513270"   "4594484"   "4757420"   "5495083"   "5502609"   "5530613"   "5629658"   "5644283"   "5777286"   "5867356").PN. OR ("6958671").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/04 18:20 |
| S55 | 88   | 361/9.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 18:27 |
| S56 | 1081 | 361/58.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 18:29 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S57 | 90 | S56 and (ptc (positive adj (temperature thermal) adj coefficient))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/04 18:29 |
| S58 | 14 | ("20010021090"   "3727157"   "4050044"   "4431978"  <br>"4513270"   "4594484"   "4757420"   "5495083"   "5502609"  <br>"5530613"   "5629658"   "5644283"   "5777286"   "5867356").<br>PN. OR ("6958671").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/04 23:25 |